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Surfing the Hippocampus Wave

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2019

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citation for published version (APA)

Bartel, F. (2019). *Surfing the Hippocampus Wave*. [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam].

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Surfing the Hippocampus wave

Surfing the *Hippocampus* wave

INVITATION

You are cordially invited to the
public defense of the thesis

Surfing the Hippocampus wave

on Thursday 28th February
2019, at 11:45 AM

The defense will be held in the
Aula of the Vrije Universiteit, De
Boelelaan 1105 in Amsterdam

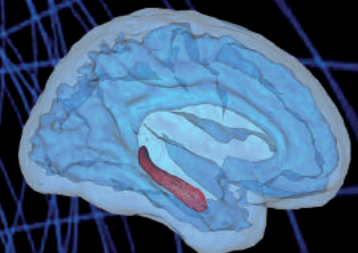
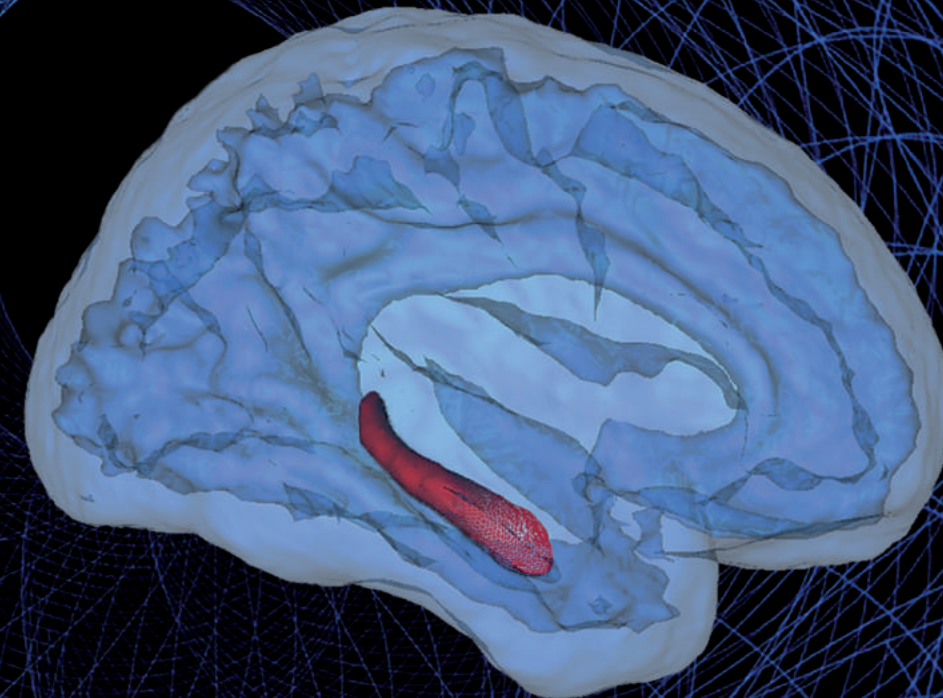
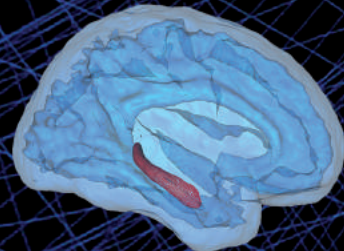
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Paranymphs:
Martin Visser
Alexandra de Sitter

*The hippocampus plays a crucial role in
memory formation. It is important to assess
the hippocampal volume and volume
changes in patients with neurodegenerative
diseases, as well as in patients suffering from
cognitive decline due to brain radiotherapy.*

*Cognitive dysfunction is often associated
with tissue loss, and anatomical changes can
be detected with magnetic resonance
imaging (MRI).*

*The general objective of this thesis was to
optimize methods for detecting anatomical
changes through delineation of the
hippocampus using MRI. Within the scope of
the general objective, the performance of
commonly used available detection methods
are tested, compared, and new
methodologies based on mesh processing
procedures are developed.*



Fabian Bartel

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